

WHAT IS CLAIMED IS

1. A baking oven (1), comprising
 - a charging section (4, 6) with an inlet (4) for dough pieces (3) to be loaded;
 - a baking chamber (7);
 - a discharging section (42, 43) with an outlet (43) for baked dough pieces (3) to be unloaded;
 - a circulating-air arrangement, which is comprised of
 - a source (32) generating a flow of circulating air (37, 39),
 - a heating device (33) for circulating air,
 - a guiding channel (34, 38, 24, 9, 7) for circulating air, at least sections of which guiding channel (34, 38, 24, 9, 7) are formed by the baking chamber (7);
 - an outer wall (8) of the baking chamber (7), the outer wall (8) being rotationally symmetrical about a vertical axis of rotation (10) and expanding steadily upwards; and
 - a driving device (22, 23), by means of which the outer wall (8) is driven in rotation about the axis of rotation (10).
2. A baking oven according to claim 1, wherein the baking chamber (7) comprises an inner wall (9) in addition to the outer wall (8).
3. A baking oven according to claim 2, wherein the inner wall (9) is rotationally symmetrical about a vertical axis of rotation (10), steadily expanding upwards.
4. A baking oven according to claim 2, wherein the inner wall (9) has circulating-air passages.

5. A baking oven according to claim 1, comprising a baking-chamber closing arrangement (24), which is disposed at the bottom of the baking chamber (7) and which is displaceable by an actuator (29) between a baking position, in which the baking-chamber closing arrangement (24) closes the baking chamber (7) at the bottom, and a position for discharge, in which it produces a connection between the baking chamber (7) and the discharging section (42, 43).
6. A baking oven according to claim 5, wherein the baking-chamber closing arrangement (24) forms part of the guiding channel (34, 38, 24, 31, 9, 7) for circulating air.
7. A baking oven according to claim 1, comprising a slope (44) between the baking chamber (7) and an outlet (43), the slope (44) being part of the discharging section (42, 43).
8. A baking oven according to claim 7, wherein the baking-chamber closing arrangement (24) and an unloading door (45) that closes the outlet (43) are embodied for controlled displacement.
9. A baking oven according to claim 1, comprising a vacuum pump which is connected to the baking chamber (7) and designed for controlled actuation and by which to set a given negative pressure in the baking chamber (7).
10. A baking oven according to claim 1, comprising a steaming assembly which is connected to the baking chamber (7) and designed for controlled actuation and by which to supply the baking chamber (7) with steam.

11. A baking oven according to claim 1, wherein the outer wall (8) of the baking chamber (7) expands in the shape of a funnel.
- 5 12. A baking oven according to claim 3, wherein the inner wall (9) expands upwards in the shape of a cone and parallel to the outer wall (8).